

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-035576

(43)Date of publication of application : 02.02.2000

(51)Int.Cl.

G02F 1/1335

B32B 7/02

G02B 6/00

(21)Application number : 10-204141

(71)Applicant : SHARP CORP

(22)Date of filing : 21.07.1998

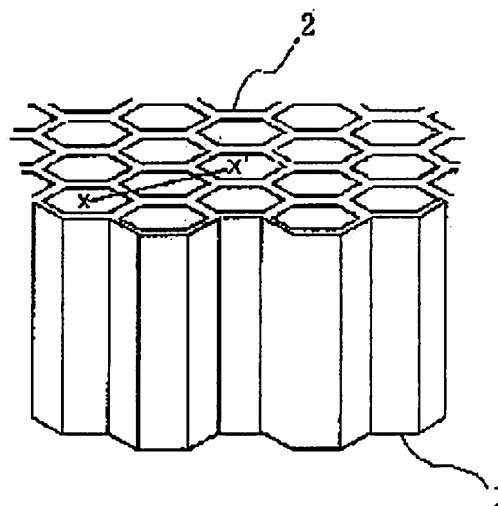
(72)Inventor : SHIRAI YOSHIHIRO

(54) FILM OF LIGHT TRANSMISSION BODY AND ITS MANUFACTURE, LAMINATED FILM AND LIQUID CRYSTAL DISPLAY DEVICE USING THEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a film of a thin, light in weight, light transmission body being stuck or integrally laminated with ease, providing a large area screen and having high resolution, and a method for manufacturing the same and a laminated film and a liquid crystal display using the same.

SOLUTION: A photopolymerizable mixture layer with ≤ 1 mm thickness, composed of a composition of two or more kinds of photopolymerizable compounds having refractive indices different from each other, is provided on a supporting body substrate. Subsequently the photopolymerizable mixture layer is irradiated through a photo mask with a high-pressure mercury-vapor lamp for ultraviolet rays to selectively move two or more kinds of photopolymerizable compounds having refractive indices different from each other in accordance with the polymerization and to form a columnar structure 2 having a circular or polygonal, such as tetragonal or hexagonal cross-section, with $\leq 100 \mu\text{m}$ columnar diameter and ≤ 1 mm height as a highly refractive resinous region in a plurally packed state within a plane. Afterwards the full surface is irradiated with ultraviolet rays and is tripped off from the supporting body substrate to obtain a film of light transmission body 1. A laminated film or a liquid crystal display is manufactured by using the film of light transmission body 1.



LEGAL STATUS

[Date of request for examination]	27.07.2001
[Date of sending the examiner's decision of rejection]	25.03.2003
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]	
[Date of final disposal for application]	
[Patent number]	3763378
[Date of registration]	27.01.2006
[Number of appeal against examiner's decision of rejection]	2003-007084
[Date of requesting appeal against examiner's decision of rejection]	24.04.2003
[Date of extinction of right]	